

STudent REseArch Mobility Programme (STREAM) Project proposal

Host University:
Université Paris-Saclay

Field (drop-down list):
Natural sciences, mathematics and statistics

Specified field, subject:
Organic Chemistry

Research project title:
Synthesis of peptidomimetics of biological interest

Possible starting month(s):

Sep	Oct	Nov	Dec	Jan	Fev	Mar	Apr	May	Jun	Jul	Aug
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Possible duration in months:

1	2	3	4	5	6	7	8	9	10	11	12
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exact starting and end dates will be discussed between the supervisor and the student

Date of validity: from DD/MM/YY till DD/MM/YY

Suitable for students in: ☐ Bachelor level ☒ Master level

Prerequisites: Organic chemistry theoretical and experimental knowledge

Restrictions:

Description (maximum 2,000 characters):

Peptide derivatives that mimic secondary structures of proteins are attractive candidate molecules in drug development for modulating protein structuration and association with biomolecules. Foldamers have been defined as any oligomer with a propensity to fold into a well-defined three-dimensional structure. Foldamers have a promising future in chemical biology and in medicinal chemistry.

The Master project will be focused on the effect of introducing specific non natural scaffolds in peptidomimetic foldamers mimicking secondary structures such as α -helices and β -sheets, on:

- the structuration,
- the ability to inhibit protein-protein interactions.

Research laboratory:FluoPEPIT / BioCIS

Faculty and/or Department: Faculty of Pharmacy Please do contact the stream Managers at the International offices florence.bougeret@universite-paris-saclay.fr and dorine.bonte@universite-paris-saclay.fr

Contact person, including position: Prof Dr. Sandrine Onger

Contact email:sandrine.onger@universite-paris-saclay.fr

Deadline for nomination to reach host university:June 2021

Notification of admission given by the end of:July 2021

Additional information:<https://www.biocis.universite-paris-saclay.fr/?-FLUOPEPIT-&lang=en>



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